

CLAIMS:

1. A fuel saving device comprising a disc-like non-magnetic solid support body having at least one flow opening therein and a continuous periphery which adapts the support body for positioning within a sealed air/fuel environment of a fuel system of a combustion engine at an air/fuel mixing point within the fuel system in a manner in which the longitudinal axis of the at least one flow opening is co-axial with fluid flow paths within the air/fuel environment, a plurality of permanent magnets having opposed polar axes supported by the periphery and positioned to provide at least one magnetic field across the at least one flow opening in the support body, and at least one booster magnet associated with the at least one flow opening.
2. The device of claim 1 wherein the booster magnet is supported within at least one flow opening.
3. The device of claim 2 wherein a booster magnet is provided for each flow opening.
4. The device of claim 1 wherein the support body is deeper than the magnets in an axial direction.
5. The device of claim 1 wherein the plurality of peripherally mounted magnets are mounted in substantially the same plane.
6. The device of claim 1 wherein the booster magnet is positioned in substantially the same plane as the plurality of permanent magnets.
7. The device of claim 1 adapted for a multi-throat carburettor housing multiple flow openings, each flow opening being provided with two inwardly facing magnets spaced at right angles with a booster magnet or magnetisable material positioned between juxtapositioned flow openings.
8. The device of claim 1 wherein the magnets are keyed into the periphery of the body and each having a magnetic face which extends to and is communicable with the at least one flow opening.
9. The device of claim 1 wherein the support body is can be provided with a plurality of apertures therein to facilitate the fixture of the support body in a fuel/air line leading to a combustion chamber of an internal combustion engine.
10. The device as claimed in claim 1 wherein the support body is provided with top and bottom cover plates which secure the magnets against displacement via top

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and bottom surfaces of the support body.

11. The device of claim 1 having an even number of magnets with the poles of opposite pairs of the magnets reversed relative to each other.

12. The device of claim 1 wherein the booster magnet has a polar axis oriented
5 with the negative pole positioned on an outlet side of the device.